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single molecule sequencing

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### Method for rapid base **sequencing** in DNA and RNA

US Pat. 4962037 - Filed Oct 7, 1987 - United States of America

A method for base **sequencing** of DNA or RNA fragments, comprising the steps of:

... As noted by Shera, supra, data handling in the **single molecule** detection ...

### Single molecule identification using selected fluorescence characteristics

US Pat. 6049380 - Filed Oct 9, 1996 - Regents of the University of California

An immediate application is to **single molecule DNA sequencing**. Sequencing

multiple identical DNA strands individually and combining the results to form a

...

### Method for determining nucleic acids base sequence and apparatus therefor

US Pat. 6136543 - Filed Jul 20, 1999 - Hitachi, Ltd.

The sample DNA 7 is introduced into the buffer solution in the cell, and the nonmagnetic bead 5 attached to the **single DNA molecule** is captured in the field

...

### Single molecule detection by *in situ* hybridization

US Pat. 5866331 - Filed Oct 20, 1995 - University of Massachusetts

**SINGLE MOLECULE DETECTION BY IN SITU HYBRIDIZATION STATEMENT AS TO FEDERALLY SPONSORED RESEARCH** Work on this invention was supported, in part, ...

### Methods and products for analyzing polymers

US Pat. 6355420 - Filed Aug 13, 1998 - US Genomics

30 Report on the **sequencing** by hybridization workshop. Genomics, 13:1378-1383.

24. Castro, A. and Shera, EB 1995. **Single-molecule** electrophoresis. Anal. ...

### Unimolecular segment amplification and **sequencing**

US Pat. 6143495 - Filed Nov 21, 1996 - Yale University

Primer Extension **Sequencing** Following amplification, the nucleotide sequence ...

The interrogation primer can be a pre-formed **single molecule** or it can be ...

### Applications of fluorescent N-nucleosides and fluorescent structural analogs ...

US Pat. 5763167 - Filed Mar 21, 1994 - Chromagen

A hybridization complex consisting of a polynucleotide **molecule** ... order such that (a) a **single molecule** of said isolated polynucleotide **molecule** will not ...

### DNA **sequencing** by mass spectrometry via exonuclease degradation

US Pat. 5622824 - Filed Feb 10, 1995 - Sequenom, Inc.

The application of mass spec- tometry for DNA **sequencing** has been investigated

... A **single molecule** of a DNA or RNA fragment is suspended in a moving flow ...

### Unimolecular segment amplification and **sequencing**

US Pat. 6329150 - Filed Jun 23, 2000 - Yale University

Primer Extension **Sequencing** Following amplification, the nucleotide sequence ...